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(11) **EP 1 312 798 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
22.10.2003 Bulletin 2003/43

(51) Int Cl.7: **F02N 3/02, F16F 15/121**

(43) Date of publication A2:
21.05.2003 Bulletin 2003/21

(21) Application number: **02025032.0**

(22) Date of filing: **11.11.2002**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
IE IT LI LU MC NL PT SE SK TR**
Designated Extension States:
AL LT LV MK RO SI

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(30) Priority: **16.11.2001 JP 2001351117**

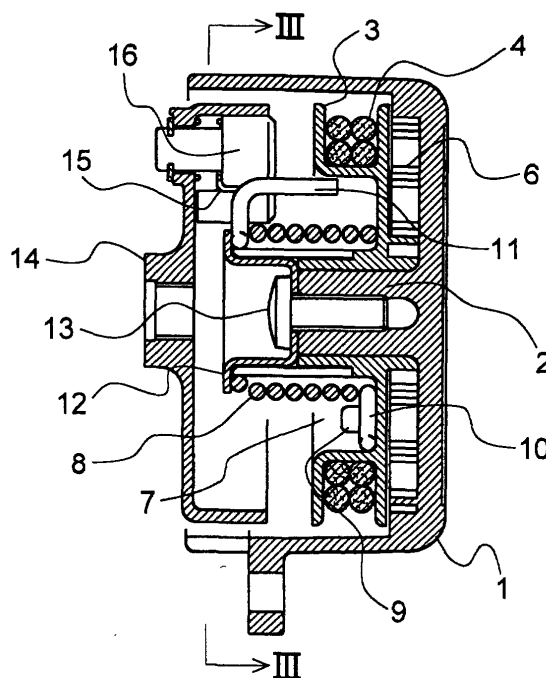
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(54) **Recoil starter**

(57) A recoil starter capable of starting an engine easily has a reduced number of components and a simple structure, and enables miniaturization and a cost reduction. A damper spring (8) having one end thereof fixed to a reel (3) and provided at the other end thereof with an operation section (11) is arranged in such a manner that the operation section (11) thereof is engageable with a centrifugal ratchet (16) provided on a rotating member (14) of the engine, so that a shock caused by the engine is absorbed by the damper spring (8) and a rotating force from the reel (3) is stored therein.

FIG. 2



EP 1 312 798 A3



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EUROPEAN SEARCH REPORT

Application Number
EP 02 02 5032

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y	US 4 922 868 A (OHKANDA MASAO) 8 May 1990 (1990-05-08) * column 3, line 7-13; claim 1; figures 1,2 *	1-6	F02N3/02 F16F15/121
Y	US 3 570 464 A (MORABIT VINCENT D ET AL) 16 March 1971 (1971-03-16) * figure 2 *	1-6	
P,X	US 2001/047786 A1 (AKAIKE JUNICHI ET AL) 6 December 2001 (2001-12-06) * figures 1,2 *	1-6	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F16F
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 29 August 2003	Examiner Olivieri, E
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 02 02 5032

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29-08-2003

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EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82